

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-2. (Canceled)

(3.) (Previously Presented) A method for making a data service in a communication system, comprising the steps of:

(1) defining a particular service option on mutual data service between a first mobile station and a second mobile station within the same network;

B (2) when the first mobile station requests a call for the data service, the MSC checking the call being requested according to the particular service option;

(3) when the call is requested according to the particular service option, setting up a RLP between the first mobile station, an origination side base station, and the MSC through a VCE in a base station controller;

(4) requesting a paging for the data service from the MSC to the second mobile station that is a destination side;

(5) when the second mobile station makes a response to the paging according to the particular service option, setting up a RLP between the second mobile station, the destination side base station, and the base station controller through the VCE;

(6) setting up a data traffic path between the first mobile station and the second mobile station by means of the MSC; and,

(7) carrying out the data service between the first mobile station and the second mobile station through the data traffic path, wherein the data traffic path travels through the MSC only once and the MSC services both the first mobile station and the second mobile station.

B 4. (Original) A method as claimed in claim 3, wherein the base station controller includes one base station controller for controlling both the origination side base station and the destination side base station, or two base station controllers corresponding to the origination side base controller and the destination side base station controller.

5. (Original) A method as claimed in claim 3, wherein a PPP is set up between the origination side first mobile station, and the destination side second mobile station.

(6.) (Previously Presented) A communication system for data service, comprising:
an origination mobile station;
a destination mobile station within a network the same with the origination mobile station having a particular service option defined for the data service to the origination mobile station;

a base station controller for setting up a RLP between the origination mobile station, an MSC and the destination side base station through a VCE therein, when a call for the data service is requested according to the particular service option; and,

the MSC for setting up a data traffic path for data transmission between the destination mobile station and the origination mobile station through the origination base station when the data service is requested according to the particular service option, wherein the data traffic path travels through the MSC only once and the MSC services both the destination mobile station and the origination mobile station.

B
7. (Original) A communication system as claimed in claim 6, wherein a PPP is set up between the origination mobile station and the destination mobile station by means of the MSC.

8. (Original) A communication system as claimed in claim 6, wherein the base station controller includes a first base station controller for the origination mobile station and a second base station controller for the destination mobile station.

9. (Original) A communication system as claimed in claim 6, wherein the base station controller includes one base station controller for controlling both the origination side base station and the destination side base station.

10. (Original) A communication system as claimed in claim 6, further comprising personal computers connected to the mobile stations as terminals for the data transmission in the data service.

⑪. (Currently Amended) An apparatus comprising a mobile switching center, wherein:

if the mobile switching center is configured to service a first mobile unit over a first communication path; and

if the mobile switching center is configured to service a second mobile unit over a second communication path,

then the mobile switching center is configured to connect the first communication path and the second communication path at the mobile switching center, the first communication path and the second communication path both passing through a voice channel element (VCE) of a base station controller.

12. (Previously Presented) The apparatus of claim 11, wherein:

the mobile switching center is configured to service the first mobile unit through control of a first base station, wherein the first base station is in wireless communication with the first mobile unit; and

the mobile switching center is configured to service the second mobile unit through control of a second base station, wherein the second base station is in wireless communication with the first mobile unit.

13. (Previously Presented) The apparatus of claim 11, wherein the mobile switching center is configured to service the first mobile unit and the second mobile unit through control of a base station, wherein the base station is in wireless communication with the first mobile unit and the second mobile unit.

14. (Previously Presented) The apparatus of claim 11, wherein the first communication path and the second communication paths are configured to transmit data traffic.

15. (Previously Presented) The apparatus of claim 11, wherein at least one of the first mobile unit and the second mobile unit is at least one of:

- a cellular telephone;
- a mobile station;
- a wireless telephone; and
- a computer.

16. (Currently Amended) A method comprising:

setting up a radio link protocol (RLP) through a voice channel element (VCE) in a base station controller when a call is requested according to a particular service option;

if a mobile switching center is configured to service a first mobile unit over a first communication path; and

if the mobile switching center is configured to service a second mobile unit over a second communication path,

then connecting the first communication path and the second communication path at the mobile switching center.

17. (Previously Presented) The method of claim 16, wherein:

the mobile switching center is configured to service the first mobile unit through control of a first base station, wherein the first base station is in wireless communication with the first mobile unit; and

the mobile switching center is configured to service the second mobile unit through control of a second base station, wherein the second base station is in wireless communication with the first mobile unit.

18. (Previously Presented) The method of claim 16, wherein the mobile switching center is configured to service the first mobile unit and the second mobile unit through control

of a base station, wherein the base station is in wireless communication with the first mobile unit and the second mobile unit.

19. (Previously Presented) The method of claim 16, wherein the first communication path and the second communication path are configured to transmit data traffic.

20. (Previously Presented) The method of claim 16, wherein at least one of the first mobile unit and the second mobile unit is at least one of:

- B1
- a cellular telephone;
 - a mobile station;
 - a wireless telephone; and
 - a computer.

(21) (New) A method comprising:
defining a particular service option between a first mobile station and a second mobile station;

when the call is requested according to the particular service option, setting up a radio link protocol (RLP) between the first mobile station, an origination side base station, and a mobile switching center (MSC) through a voice channel element (VCE) in a base station controller;

requesting a paging for the data service from the MSC to the second mobile station that is a destination side;

when the second mobile station makes a response to the paging according to the service option, setting up a RLP between the second mobile station, the destination side base station, and the base station controller through the VCE;

setting up a data traffic path between the first mobile station and the second mobile station by means of the MSC; and

performing the data service between the first mobile station and the second mobile station through the data traffic path.

22. (New) The method as claimed in claim 21, wherein the data traffic path travels through the MSC only once and the MSC services both the first mobile station and the second mobile station.

23. (New) A method as claimed in claim 21, wherein the base station controller includes one base station controller for controlling both the origination side base station and the destination side base station, or two base station controllers corresponding to the origination side base controller and the destination side base station controller.

24. (New) A method as claimed in claim 21, wherein a point to point protocol (PPP) is set up between the first mobile station and the second mobile station.

25. (New) A communication system comprising:

an origination mobile station;

a destination mobile station having a particular service option defined for data service to the origination mobile station;

a base station controller for setting up a radio link protocol (RLP) between the origination mobile station, a mobile switching center (MSC) and the destination mobile station through a voice channel element (VCE) of the base station controller when a call for the data service is requested according to the particular service option; and

the MSC setting up a data traffic path for data transmission between the destination mobile station and the origination mobile station through an origination side base station when the data service is requested according to the particular service option.

26. (New) A communication system as claimed in claim 25, wherein the data traffic path travels through the MSC only once and the MSC services both the destination mobile station and the origination mobile station.

27. (New) A communication system as claimed in claim 26, wherein a point to point protocol (PPP) is set up between the origination mobile station and the destination mobile station by means of the MSC.

28. (New) A communication system as claimed in claim 25, wherein the base station controller includes a first base station controller for the origination mobile station and a second base station controller for the destination mobile station.

B1

29. (New) A communication system as claimed in claim 25, wherein the base station controller includes one base station controller for controlling both the origination side base station and a destination side base station.
